

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number
WO 2005/025541 A2

(51) International Patent Classification⁷: **A61K 9/14**

(21) International Application Number:
PCT/GB2004/003942

(22) International Filing Date:
15 September 2004 (15.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0321612.4 15 September 2003 (15.09.2003) GB
0321607.4 15 September 2003 (15.09.2003) GB
0321608.2 15 September 2003 (15.09.2003) GB
0409133.6 23 April 2004 (23.04.2004) GB

(71) Applicant (for all designated States except US): **VECTURA LIMITED** [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB).

(72) Inventors; and

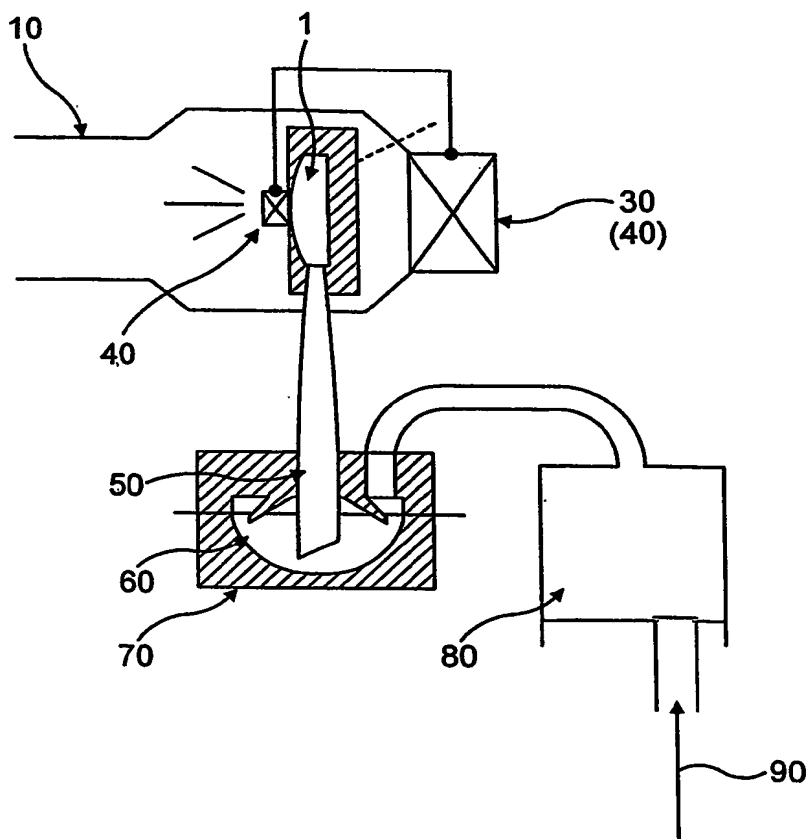
(75) Inventors/Applicants (for US only): **MORTON, David** [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). **GANDERTON, David** [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). **STANFORTH, John** [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). **TOBYN, Mike** [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). **EASON, Stephen** [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). **HARMER, Quentin** [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB).

(74) Agents: **GILL, Sian et al.**; Venner Shipley LLP, 20 Little Britain, London EC1A 7DH (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

[Continued on next page]

(54) Title: **MANUFACTURE OF PHARMACEUTICAL COMPOSITIONS**



(57) Abstract: Manufacture of Pharmaceutical Compositions The present invention relates to particles and to methods of making particles. In particular, the invention relates to methods of making composite active particles comprising a pharmaceutically active material for pulmonary inhalation, the method comprising a jet milling process.



GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.